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NOTICE OF ALLOWANCE AND FEE(S) DUE

48980

7590

01/15/2009

YOUNG & BASILE, P.C. 3001 WEST BIG BEAVER ROAD SUITE 624 TROY, MI 48084

EXAMINER				
RO, BENTSU				
ART UNIT	PAPER NUMBER			

2837

DATE MAILED: 01/15/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,203	04/10/2006	Hideaki Ohtsuka	NNA-116-B	6725

TITLE OF INVENTION: APPARATUS AND METHOD FOR CONTROLLING A MOTOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/15/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further adicated unless correcte aintenance fee notifica	correspondence including below or directed oth tions.	g the Patent, advance or terwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspon rate "FEF	idence address as E ADDRESS" for
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YOUNG & BA 3001 WEST BIO SUITE 624	ASILE, P.C. G BEAVER ROAD			I here State addre trans	eby certify that this s Postal Service was essed to the Mail	s Fee(: ith suf Stop	s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	deposited t class ma above, or	1 with the United til in an envelope being facsimile ted below.
TROY, MI 4808	34								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	TOR		ATTO	RNEY DOCKET NO.	CONFIR	RMATION NO.
10/575,203	04/10/2006	-	Hideaki Ohtsuka				NNA-116-B		6725
APPLN. TYPE	SMALL ENTITY	ETHOD FOR CONTRO	PUBLICATION FEE D	I HII	PREV. PAID ISSUE	FFF	TOTAL FEE(S) DUE	T 1	DATE DUE
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EXAM		ART UNIT	CLASS-SUBCLASS						
RO, BE		2837	318-146000						
. Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alterically (2) the name of a sregistered attorney 2 registered patent	the names of up to 3 registered patent attorneys agents OR, alternatively, the name of a single firm (having as a member a istered attorney or agent) and the names of up to egistered patent attorneys or agents. If no name is ead, no name will be printed.					
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The field below, no assignee eletion of this form is NOT	data will appear on th	ne pa g an a	tent. If an assigne ssignment.			cument h	nas been filed for
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_ ` .	tus (from status indicated is SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no	long	er claiming SMAI	LEN	ΓΙΤΥ status. See 37 CF	i P 1.27(α))(2)
OTE: The Issue Fee an	d Publication Fee (if requ	uired) will not be accepted tes Patent and Trademark	d from anyone other th						
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48980	7590 01/15/2009	EXAMINER				
YOUNG & BAS	SILE, P.C.	RO, BENTSU				
	BEAVER ROAD	ART UNIT PAPER NUMBE				
SUITE 624 TROY, MI 48084			2837 DATE MAILED: 01/15/200	9		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 585 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 585 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/575,203	OHTSUKA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	DENTCH DO	2027	
	BENTSU RO	2837	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due cours	e. THIS ne initiative
1. This communication is responsive to 8/26/2008.			
2. The allowed claim(s) is/are <u>1-27</u> .			
 3. Acknowledgment is made of a claim for foreign priority units. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Applica	ion No	om the
International Bureau (PCT Rule 17.2(a)).	cuments have been recent	ed in this national stage application in	OIII tile
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requiren	nents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.		
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			he
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of	Informal Patent Application	
2. \square Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No 7.	o./Mail Date 's Amendment/Comment	
Paper No./Mail Date <u>2007-10-24</u>			•
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		's Statement of Reasons for Allowanc	е
/BENTSU RO/			
Primary Examiner, Art Unit 2837			

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Art Unit: 2837

REASONS FOR ALLOWANCE

- 1. The following is an examiner's statement of reasons for allowance: A motor speed or torque control using PWM driver or square-wave driver, or switching between PWM driver and square-wave driver is prior art, such as JP Publication 2004-072954; USPN 4377779; USPN 4926104. However, no prior art teaches a motor speed control having a switching step between PWM mode and square-wave mode to include a voltage control of a power generator during the transition of the switching step.
- 2. The drawings filed on 4/10/2006 are acceptable.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENTSU RO whose telephone number is (571)272-2072. The examiner can normally be reached on WS08605.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln D. Donovan can be reached on 571-272-1988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2837

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BENTSU RO/ Primary Examiner, Art Unit 2837